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1 [Emerging trends in the WWW user population](#)

James E. Pitkow, Colleen M. Kehoe

June 1996 **Communications of the ACM**, Volume 39 Issue 6

Full text available:  [pdf\(151.73 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



2 [5b--Persistence and Change: An approach to persistence of Web resources](#)

Joachim Feise

September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**

Full text available:  [pdf\(46.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



The growth of the World Wide Web holds great promise for universal online information access. New information is constantly being made available for users. However, the information accessible on the Web changes constantly. These changes may occur as modifications to both the content and the location of previously existing Web resources. As these changes occur, the accessibility to past versions of such Web resources is often lost. This paper presents an approach to provide content persistence ...

Keywords: WWW, persistence, versioning

3 [EIU's ViewsWire: new wine in a new bottle](#)

Peter Lovelock, Ali F. Farhoomand

December 2000 **Proceedings of the twenty first international conference on Information systems**

Full text available:  [pdf\(516.64 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



4 [Section 04: reflecting on practice: Innovation in extremis: evolving an application for the critical work of email and information management](#)

Victoria Bellotti, Nicolas Ducheneaut, Mark Howard, Ian Smith, Christine Neuwirth

June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available:  [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We describe our experience of trying to develop a novel application that transforms information management (both coordination-based and personal) from stand-alone resources into resources deeply embedded in email. We explored two models for accomplishing this goal; these were to embed these resources in the email channel and to embed them in the client. Our exploration of the first model was intensive, in-depth and ultimately unsuccessful in large part due to our design process. We adopted Extre ...

Keywords: Extreme Programming, Personal Information Management, TaskMaster, ThinkDoc, XP, email, workflow

5 [Mission-critical web applications: a seismological case](#)



Marco Padula, Giuliana Rubbia Rinaldi

July 1999 **interactions**, Volume 6 Issue 4

Full text available: [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
[html\(47.75 KB\)](#)

6 [Managing resources and services: Metis: lightweight, flexible, and Web-based workflow services for digital libraries](#)



Kenneth M. Anderson, Aaron Andersen, Neet Wadhwan, Laura M. Bartolo

May 2003 **Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries**

Full text available: [pdf\(160.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The Metis project is developing workflow technology designed for use in digital libraries by avoiding the assumptions made by traditional workflow systems. In particular, digital libraries have highly distributed sets of stake-holders who nevertheless must work together to perform shared activities. Hence, traditional assumptions that all members of a workflow belong to the same organization, work in the same fashion, or have access to similar computing platforms are invalid. The Metis approach ...

7 [Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems](#)



Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

8 [The architecture of robust publishing systems](#)



Marc Waldman, Aviel D. Rubin, Lorrie Faith Cranor

November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2

Full text available: [pdf\(680.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Internet in its present form does not protect content from censorship. It is

straightforward to trace any document back to a specific Web server, and usually directly to an individual. As we discuss below, there are valid reasons for publishing a document in a censorship-resistant manner. Unfortunately, few tools exist that facilitate this form of publishing. We describe the architecture of robust systems for publishing content on the Web. The discussion is in the context of Publius, as that ...

Keywords: Censorship resistance, Web publishing

9 XF-Mail

John M Fisk

April 1996 **Linux Journal**

Full text available:  [html\(27.65 KB\)](#) Additional Information: [full citation](#), [index terms](#)



10 Web-based asynchronous support for collaborative learning

Kam Hou Vat

December 2001 **The Journal of Computing in Small Colleges**, Volume 17 Issue 2

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



This paper investigates the construction of a WWW-enabled course support environment for learner-centered education. The system is designed to encourage students' responsibility, to make learning meaningful, and to support active knowledge construction in the specific curriculums of their study. This system, currently named REAL, carries the connotation of a Rich Environment for Active Learning, whose pedagogy comes from the constructivist's theory of learning. REAL facilitates the interaction a ...

11 Techniques for obtaining high performance in Java programs

Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available:  [pdf\(816.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



This survey describes research directions in techniques to improve the performance of programs written in the Java programming language. The standard technique for Java execution is interpretation, which provides for extensive portability of programs. A Java interpreter dynamically executes Java bytecodes, which comprise the instruction set of the Java Virtual Machine (JVM). Execution time performance of Java programs can be improved through compilation, possibly at the expense of portability ...

Keywords: Java, Java virtual machine, bytecode-to-source translators, direct compilers, dynamic compilation, interpreters, just-in-time compilers

12 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  [pdf\(613.63 KB\)](#)  [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



13 Teaching 3D modeling and simulation: virtual kelp forest case study

Don Brutzman

February 2002 **Proceeding of the seventh international conference on 3D Web technology**



Full text available:  pdf(600.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Two classes of graduate students learning 3D graphics and analytic simulation at the Naval Postgraduate School modeled the three-dimensional (3D) shape, structure, imagery and motion behaviors of plants and animals in the kelp forest exhibit at the Monterey Bay Aquarium. Our intended audience includes educators and students of all ages, scientific users interested in composing models in a 3D Web environment, and the general public. The Virtual Reality Modeling Language (VRML) proved to be an exc ...

Keywords: 3D graphics education, VRML, X3D, kelp forest

14 What users should know about the Public Ada Library (PAL) 

Richard Conn

July 1997 ACM SIGAda Ada Letters, Volume XVII Issue 4

Full text available:  pdf(729.04 KB) Additional Information: [full citation](#), [index terms](#)

15 Transforming the content management process at IBM.com 

Louis Weitzman, Sara Elo Dean, Dikran Meliksetian, Kapil Gupta, Nianjun Zhou, Jessica Wu
April 2002 Case studies of the CHI2002|AIGA Experience Design FORUM

Full text available:  pdf(1.45 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This case study explores the evolution of the Franklin Content Management System, developed by IBM's Internet Technology Group. Franklin began as a technology-driven process to provide a web content management solution with the following goals: content reusability, simplified management of content and design that enforces integrity and consistency, the customization of content to individual users, and the delivery of content to a variety of display devices. These goals were met in part by the dec ...

Keywords: DTD, XML, XSL, content management, content reuse, customization, information architecture, object dependency, software development, web publishing

16 The digital agora: using technology for learning in the social sciences 

Carolyn Watters, Marshall Conley, Cynthia Alexander

January 1998 Communications of the ACM, Volume 41 Issue 1

Full text available:  pdf(423.35 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

17 Illustrative risks to the public in the use of computer systems and related technology 

Peter G. Neumann

January 1996 ACM SIGSOFT Software Engineering Notes, Volume 21 Issue 1

Full text available:  pdf(2.54 MB) Additional Information: [full citation](#)

18 A unified component framework for dynamically extensible virtual environments 

Andrzej Kapolka, Don McGregor, Michael Capps

September 2002 Proceedings of the 4th international conference on Collaborative virtual environments

Full text available:  pdf(129.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

If large-scale shared virtual worlds are to be established on the Internet, they must be based on technologies that allow them to adapt, scale, and evolve continuously—that is, without their being taken offline. In the course of designing NPSNET-V, an architecture intended to satisfy these criteria through component-based dynamic extensibility, the authors recognized the need for a consistent, unified component framework. This framework, which they implemented in Java™, allows one to const ...

Keywords: Java, XML, component-based architectures, dynamic extensibility, networked virtual environments

19 [Video retrieval: Design, implementation and testing of an interactive video retrieval system](#)

Georgina Gaughan, Alan F. Smeaton, Cathal Gurrin, Hyowon Lee, Kieran McDonald
November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available:  [pdf\(504.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present and discuss the system we developed for the search task of the TRECVID 2002, and its evaluation in an interactive search task. To do this we will look at the strategy we used in designing the system, and we discuss and evaluate the experiments used to determine the value and effectiveness of one system incorporating both feature evidence and transcript retrieval compared to a transcript-only retrieval system. Both systems tested are built on the foundation of the F&iacut ...

Keywords: interface design, system evaluation, usability testing, video analysis, video browsing, video retrieval

20 [Pervasive computing: Application-level power management in pervasive computing systems: a case study](#)

Luca Negri, Domenico Barretta, William Fornaciari
April 2004 **Proceedings of the first conference on computing frontiers on Computing frontiers**

Full text available:  [pdf\(214.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we propose an application-level power consumption modeling and optimization technique for mobile devices. The application being considered is modeled as a FSM and the power consumption figures are associated with it through current measurements on selected states, followed by the application of a linear functional model. The FSM model is then used, together with a power management policy, to extend battery lifetime while guaranteeing the execution of essential states in the applica ...

Keywords: pervasive computing, power management, virtual campus

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1 [Stream query processing I: Approximate join processing over data streams](#)

Abhinandan Das, Johannes Gehrke, Mirek Riedewald

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**

Full text available:  [pdf\(282.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider the problem of approximating sliding window joins over data streams in a data stream processing system with limited resources. In our model, we deal with resource constraints by shedding load in the form of dropping tuples from the data streams. We first discuss alternate architectural models for data stream join processing, and we survey suitable measures for the quality of an approximation of a set-valued query result. We then consider the number of generated result tuples as the q ...

2 [Legal deposit of digital publications: a review of research and development activity](#)

Adrienne Muir

January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  [pdf\(206.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There is a global trend towards extending legal deposit to include digital publications in order to maintain comprehensive national archives. However, including digital publications in legal deposit regulation is not enough to ensure the long-term preservation of these publications. Concepts, principles and practices accepted and understood in the print environment, may have new meanings or no longer be appropriate in a networked environment. Mechanisms for identifying, selecting and depos ...

Keywords: digital preservation, digital publications, legal deposit

3 [ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging](#)

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz

March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Full text available:  [pdf\(5.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to

varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

4 The LHAM log-structured history data access method

Peter Muth, Patrick O'Neil, Achim Pick, Gerhard Weikum

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4

Full text available:  pdf(494.76 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Numerous applications such as stock market or medical information systems require that both historical and current data be logically integrated into a temporal database. The underlying access method must support different forms of "time-travel" queries, the migration of old record versions onto inexpensive archive media, and high insertion and update rates. This paper presents an access method for transaction-time temporal data, called the log-structured history data access method (L ...

Keywords: Data warehouses, Index structures, Performance, Storage systems, Temporal databases

5 Competitive Analysis of Dynamic Power Management Strategies for Systems with Multiple Power Savings States

S. Irani, R. Gupta, S. Shukla

March 2002 **Proceedings of the conference on Design, automation and test in Europe**

Full text available:  pdf(152.94 KB)  Additional Information: [full citation](#), [abstract](#)
[Publisher Site](#)

We present strategies for "online" dynamic power management (DPM) based on the notion of the competitive ratio that allows us to compare the effectiveness of algorithms against an optimal strategy. This paper makes two contributions: it provides a theoretical basis for the analysis of DPM strategies for systems with multiple power down states; and provides a competitive algorithm based on probabilistically generated inputs that improves the competitive ratio over deterministic strategies. Experimental ...

6 Automatic content-based retrieval of broadcast news

M. G. Brown, J. T. Foote, G. J. F. Jones, K. Sparck Jones, S. J. Young

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available:  htm(51.60 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: ATM, atm, browsing, content-based retrieval, information retrieval, multimedia, television news, text subtitles

7 System technology: Supporting activity-centric collaboration through peer-to-peer shared objects

Werner Geyer, Jürgen Vogel, Li-Te Cheng, Michael Muller

November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

Full text available:  pdf(366.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a new collaborative technology that is mid-way between the informality of email and the formality of shared workspaces. Email and other ad hoc collaboration systems are typically lightweight and flexible, but build up an unmanageable clutter of copied objects. At the other extreme, shared workspaces provide formal, structured collaboration, but are too heavyweight for users to set up. To bridge this gap between the ad hoc and formal, this paper introduces the notion of "object-centri ...

Keywords: activity-centric collaboration, emerging collaboration, object-centric sharing, peer-to-peer, replication, synchronization

8 A general-purpose compression scheme for large collections



July 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 3

Full text available:  pdf(260.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Compression of large collections can lead to improvements in retrieval times by offsetting the CPU decompression costs with the cost of seeking and retrieving data from disk. We propose a semistatic phrase-based approach called xray that builds a model offline using sample training data extracted from a collection, and then compresses the entire collection online in a single pass. The particular benefits of xray are that it can be used in applications where individual records or documents must b ...

Keywords: phrase-based compression, random access, sampling

9 Online strategies for dynamic power management in systems with multiple power-saving states



Sandy Irani, Sandeep Shukla, Rajesh Gupta

August 2003 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 2 Issue 3

Full text available:  pdf(202.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Online dynamic power management (DPM) strategies refer to strategies that attempt to make power-mode-related decisions based on information available at runtime. In making such decisions, these strategies do not depend upon information of future behavior of the system, or any a priori knowledge of the input characteristics. In this paper, we present online strategies, and evaluate them based on a measure called the competitive ratio that enables a quantitative analysis of the performance of onli ...

Keywords: Dynamic, online algorithms, power management

10 Digital rights management for the online music business



Sai Ho Kwok

June 2002 **ACM SIGecom Exchanges**, Volume 3 Issue 3

Full text available:  pdf(51.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital rights management has become a pressing concern for the online music business. Existing digital rights management systems are backed by two license management models, the tethered model and the untethered model. These two license management models focus on the management of payments and usage rights. The problems with these models are that the tethered model forces consumers to be online, while the untethered model provides relatively less security to the license residing locally. This p ...

Keywords: digital rights management, electronic business, electronic commerce,

intellectual property, license management, online music business

11 Session 10: meeting support: Distributed meetings: a meeting capture and broadcasting system



Ross Cutler, Yong Rui, Anoop Gupta, JJ Cadiz, Ivan Tashev, Li-wei He, Alex Colburn, Zhengyou Zhang, Zicheng Liu, Steve Silverberg

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: [pdf\(509.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The common meeting is an integral part of everyday life for most workgroups. However, due to travel, time, or other constraints, people are often not able to attend all the meetings they need to. Teleconferencing and recording of meetings can address this problem. In this paper we describe a system that provides these features, as well as a user study evaluation of the system. The system uses a variety of capture devices (a novel 360° camera, a whiteboard camera, an overview camera, and a mi ...

Keywords: 360 degree video, meeting capture, meeting indexing, microphone array, teleconferencing

12 Best Paper: Early experiences with a 3D model search engine



Patrick Min, John A. Halderman, Michael Kazhdan, Thomas A. Funkhouser

March 2003 **Proceeding of the eighth international conference on 3D web technology**

Full text available: [pdf\(1.92 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New acquisition and modeling tools make it easier to create 3D models, and affordable and powerful graphics hardware makes it easier to use them. As a result, the number of 3D models available on the web is increasing rapidly. However, it is still not as easy to find 3D models as it is to find, for example, text documents and images. What is needed is a "3D model search engine," a specialized search engine that targets 3D models. We created a prototype 3D model search engine to investigate the d ...

Keywords: 3D model database, shape matching, shape query interfaces, specialized search engine

13 Scheduling and resource allocation: Samsara: honor among thieves in peer-to-peer storage



Landon P. Cox, Brian D. Noble

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available: [pdf\(290.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peer-to-peer storage systems assume that their users consume resources in proportion to their contribution. Unfortunately, users are unlikely to do this without some enforcement mechanism. Prior solutions to this problem require centralized infrastructure, constraints on data placement, or ongoing administrative costs. All of these run counter to the design philosophy of peer-to-peer systems. *Samsara* enforces fairness in peer-to-peer storage systems without requiring trusted third parties, ...

Keywords: distributed accounting, peer-to-peer storage systems

14 Massive arrays of idle disks for storage archives

Dennis Colarelli, Dirk Grunwald

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**Full text available:  [pdf\(751.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The declining costs of commodity disk drives is rapidly changing the economics of deploying large amounts of online or near-line storage. Conventional mass storage systems use either high performance RAID clusters, automated tape libraries or a combination of tape and disk. In this paper, we analyze an alternative design using *massive arrays of idle disks*, or MAID. We argue that this storage organization provides storage densities matching or exceeding those of tape libraries with perform ...

15 Section 04: reflecting on practice: Innovation in extremis: evolving an application for the critical work of email and information management

Victoria Bellotti, Nicolas Ducheneaut, Mark Howard, Ian Smith, Christine Neuwirth

June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**Full text available:  [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe our experience of trying to develop a novel application that transforms information management (both coordination-based and personal) from stand-alone resources into resources deeply embedded in email. We explored two models for accomplishing this goal; these were to embed these resources in the email channel and to embed them in the client. Our exploration of the first model was intensive, in-depth and ultimately unsuccessful in large part due to our design process. We adopted Extre ...

Keywords: Extreme Programming, Personal Information Management, TaskMaster, ThinkDoc, XP, email, workflow

16 Secure and selective dissemination of XML documents

Elisa Bertino, Elena Ferrari

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5

Issue 3

Full text available:  [pdf\(678.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemina ...

Keywords: Access control, XML, secure distribution

17 Shared logging services for fault-tolerant distributed computing

Dean Daniels, Roger Haskin, Jon Reinke, Wayne Sawdon

September 1990 **Proceedings of the 4th workshop on ACM SIGOPS European workshop**Full text available:  [pdf\(288.70 KB\)](#) Additional Information: [full citation](#)**18 Towards a theory of cost management for digital libraries and electronic commerce**

A. Prasad Sistla, Ouri Wolfson, Yelena Yesha, Robert Sloan

December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Full text available:  pdf(246.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the features that distinguishes digital libraries from traditional databases is new cost models for client access to intellectual property. Clients will pay for accessing data items in digital libraries, and we believe that optimizing these costs will be as important as optimizing performance in traditional databases. In this article we discuss cost models and protocols for accessing digital libraries, with the objective of determining the minimum cost protocol for each model. We exp ...

Keywords: average case analysis, caching, cost models, demand, on-line services, protocols, subscription, worst case analysis

19 EIU's ViewsWire: new wine in a new bottle 

Peter Lovelock, Ali F. Farhoosmand

December 2000 **Proceedings of the twenty first international conference on Information systems**

Full text available:  pdf(516.64 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

20 Link-based ranking 1: Adaptive on-line page importance computation 

Serge Abiteboul, Mihai Preda, Gregory Cobena

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available:  pdf(194.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The computation of page importance in a huge dynamic graph has recently attracted a lot of attention because of the web. Page importance, or page rank is defined as the fixpoint of a matrix equation. Previous algorithms compute it off-line and require the use of a lot of extra CPU as well as disk resources (e.g. to store, maintain and read the link matrix). We introduce a new algorithm OPIC that works on-line, and uses much less resources. In particular, it does not require storing the link matr ...

Keywords: hyperlink, page importance, web graph

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